



83448AEK  
Customer No. 01333

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

Michael R. Brickey, et al

MICROVOIDED LIGHT DIFFUSER

Serial No. 10/017,402

Filed December 14, 2001

Group Art Unit:

Examiner:

I hereby certify that this correspondence is being deposited today with the United States Postal Service as first class mail in an envelope addressed to Commissioner for Patents, Washington, D.C. 20231.

Deidra L. Mack

Deidra L. Mack

March 27, 2002

Date

Commissioner for Patents  
Washington, D.C. 20231

Sir:

**PRELIMINARY AMENDMENT**

Prior to examination of the above-referenced application, please amend as follows:

**In the Specification**

Please amend the specification beginning at page 9, line 8 through line 23 with the following:

Figure 1 illustrates a cross section of the voided polymer diffusion material suitable for use in a liquid crystal display device. Light diffuser 12 comprises the polymer matrix 26 and air voids 24. The surface layer 22 contains air voids that are open and not contained in polymer matrix 26. The surface roughness of light diffuser 12 is higher than a continuous polymer layer because of the open air voids at the surface of the light diffuser.

Figure 2 illustrates a liquid crystal display device with a light diffuser. Visible light source 18 is illuminated and light is guided into acrylic

board 2. Reflection tape 4 is used to focus light energy into the acrylic board 2. Reflection tape 6, reflection tape 10 and reflection film 8 are utilized to keep light energy from exiting the acrylic board in an unwanted direction. Polymer voided light diffuser 12 is utilized to diffuse light energy exiting the acrylic board in the direction perpendicular to the diffusion film. Brightness enhancement film 14 is utilized to focus the light energy into polarization film 16. The polymer voided light diffuser 12 containing a voided polymer layer is in contact with brightness enhancement film 14.

Please amend page 35 entitled "Parts List" as follows:

- 2. Light guide/acrylic board
- 4. Reflection tape
- 6. Reflection tape
- 8. Reflection film
- 10. Reflection tape
- 12. Light diffuser
- 14. Brightness enhancement film
- 16. Polarization film
- 18. Visible light source
- 22. Air polymer interface
- 24. Air voids
- 26. Polymer matrix

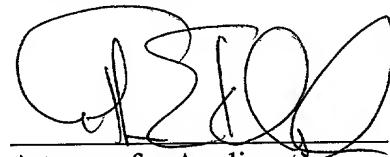
**REMARKS**

The basis for the amendment is as shown on the mark-up copy using the following legend:

- B. Description of Fig. 1 and Fig. 2, page 9
- C. Parts List

Attached hereto is a marked-up version of the changes made to the specification by the current preliminary amendment. The attached page(s) is captioned **“Version With Markings To Show Changes Made.”**

Respectfully submitted,



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**"Version With Markings To Show Changes Made."**

The paragraph beginning at page 9, line 8 through line 23 is amended as follows:

Figure 1 illustrates a cross section <sup>of the</sup> voided polymer diffusion material suitable for use in a liquid crystal display device. Light diffuser 12  
10 comprises the polymer matrix 26 and air voids 24. The surface layer 22 contains air voids that are open and not contained in polymer matrix 26. The surface roughness of light diffuser 12 is higher than a continuous polymer layer because of the open air voids at the surface of the light diffuser.

Figure 2 illustrates a liquid crystal display device with a light diffuser. Visible light source 18 is illuminated and light is guided into acrylic board 2. Reflector tape 4 is used to focus ~~of axis~~ light energy into the acrylic board 2. Reflection tape 6, reflection tape 10 and reflection film 8 are utilized to keep light energy from exiting the acrylic board in an unwanted direction. Polymer voided light diffuser 12 is utilized to diffuse light energy exiting the  
15 acrylic board in the direction perpendicular to the diffusion film. Brightness enhancement film 14 is utilized to focus the light energy into polarization film 16. The polymer voided light diffuser 12 containing a voided polymer layer is in contact with brightness enhancement film 14.

(C) (C)

On page 35, the Parts List is amended as follows:

Parts List

2; Light guide /acrylic board

(B)

4; Reflection tape

6; Reflection tape

8; Reflection film

10; Reflection tape

12; Light diffuser

14; Brightness enhancement film

16; Polarization film

18 visible light source

(B)

22; Air polymer interface

24; Air voids

26, Polymer matrix